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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/785,418	02/25/2004	Magnus Kristiansen	121939-40308491	8366	
20583 JONES DAY	7590 10/27/200	90 10/27/2008		EXAMINER	
222 EAST 41ST ST			HUG, ERIC J		
NEW YORK, NY 10017			ART UNIT	PAPER NUMBER	
			1791		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/785,418 KRISTIANSEN ET AL. Office Action Summary Examiner Art Unit Eric Hua 1791 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07 August 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-40 and 42-45 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-40 and 42-45 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Imformation Disclosure Statement(s) (PTC/S5/08)
 Paper No(s)/Mail Date ______.

Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

DETAILED ACTION

Response to Amendment

The following is in response to the amendment filed August 7, 2008.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-42 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Smith et al (US 4,436,689) and Smith et al (US 4,344,908) in view of Kobayashi et al

(JP 8-239386) and Carrock et al (US 4,184,026). An English language JPO machine translation

of Kobayashi is provided.

Smith discloses processes of making polymer filaments having high tensile strength and high modulus. The processes include dissolving a polymer in a solvent to form a polymer solution, cooling the solution to precipitate the polymer and form a polymer gel, then drawing (stretching) the polymer gel to form a filament.

In the '908 patent, at least partial evaporation of the solvent may take place during the process of drawing the filament. Polymer filaments may be drawn at drawing ratios exceeding 20. See column 3, lines 47-53. Suitable solvents include decalin. See column 4, lines 15-34. Polymers which may be drawn include polyolefins. See column 4, lines 7-14 for a list of

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polymers. In Example 1 and Table 1, column 5, high modulus (presumed to by Young's modulus) and tensile strength are illustrated for polyethylene dissolved in decalin. The modulus of the filament can exceed the highest claimed value of 30 GPa. The tensile strength can exceed the highest claimed value of 1 GPa. In Example 3, column 5, isotactic polypropylene is dissolved in decalin. In this example, a drawing ratio of 20 is used. The resulting filament has an average molecular weight of 3,000,000 and a tensile strength of 1 GPa. The solution has about 1-5% by weight of polymer to solvent.

In the '689 patent, which incorporates by reference the '908 patent (column 5, lines 2628), the process differs in that the polymers having generally lower average molecular weights, as low as 40,000, are utilized. Essentially all of the solvent is removed before drawing rather than during the drawing as in the '902 patent. Co-monomers may be used. Otherwise, the choice of types of polymer and solvents are essentially the same. Drawing ratios, modulus, and tensile strength of the filaments in the '689 patent are comparable to those of the '902 patent and may exceed the claimed levels, also.

Regarding independent claims 1 and 42, Smith discloses the claimed steps absent the presence of a nucleating agent in the polymer solution. It is noted, however, that between 0.001-10% by weight of additives, stabilizers, or fiber treatment agents can be incorporated into the filaments (Smith '689, col.5, lines 37-41).

Kobayashi is cited here to exemplify the known use of various types of nucleating agents in making crystalline polyolefins. The nucleating agents are blended with a polymer resin solution before crystallizing. Kobayashi discloses in particular the claimed 1,3-2,4-bis(3,4-dimethylbenzylidene)-D-sorbitol as a nucleating agent for an olefin resin to improve appearance,

and optical, mechanical, and thermal properties. Drawing ratios of 10 or greater are observed (paragraph [0036]). At the time of the invention, it would have been obvious to one skilled in the art to make the polymers of Smith with a nucleating agent as taught by Kobayashi to provide the above known improvements in material properties.

Carrock is cited here to further exemplify the well known use of nucleating agents in the production of polymers of propylene.

All features of dependent claims 2-19 and 25-40 are disclosed or suggested by Smith as described above, or are deemed to be otherwise obvious minor process variations, products, intended uses, or properties one skilled in the art would recognize for the types of polymers being made. All the features of claims 20-24 and 44 regarding the nucleating agents, including types and amounts added, are disclosed by Kobayashi (paragraphs [0025], [0031]) and/or Carrock (col.2 line 60 to col. 3, line 4). Regarding claim 43, biaxial drawing is taught by Kobayashi for making membranes.

Response to Arguments

Applicant's arguments filed August 7, 2008 have been considered.

In view of Applicant's arguments, particularly those arguments pertaining to Mannion

(US 5,310,950), applied previously, the rejection under 35 U.S.C. 103(a) over Smith and Smith

in view of Mannion and Kobayashi has been withdrawn. Applicant argues that transparency

taught by Mannion would not be advantageous in Smith. The examiner believes that this is

merely a different advantage than what applicant has recognized. In any event, a new grounds of

rejection is provided above which is believed to better illustrate how polymer gel processing is

improved by the presence of nucleating agents.

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The following references teach the use of nucleating agents in making polyolefins.

Voeks (US 3,367,926)

Osborn (US 3,852,237)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Hug whose telephone number is (571)272-1192.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Eric Hug/ Primary Examiner, Art Unit 1791